What is Claimed is:

- 1. A vascular prosthesis comprising:
- a radially self-expanding distal anchor;
- a helical section comprising a plurality of turns;
- a stress-relieving articulation coupling the radially self-expanding anchor to the helical section.
- 2. The vascular prosthesis of claim 1, wherein the radially self-expanding section comprises a zig-zag configuration defining a plurality of apices.
- 3. The vascular prosthesis of claim 2 wherein each apex of the zig-zag configuration comprises a pair of adjacent sections coupled by a bend.
- 4. The vascular prosthesis of claim 3, wherein the bend comprises a substantially "C"-shaped semicircular configuration.
- 5. The vascular prosthesis of claim 2 wherein the stress-relieving articulation comprises a first connection member, the first connection member comprising a substantially straight portion coupled to a first apex of the zig-zag configuration by a first hinge.
- 6. The vascular prosthesis of claim 5 wherein the substantially straight portion of the first connection member defines a distal edge of a final turn of the helical section.

- 7. The vascular prosthesis of claim 5, wherein the first hinge comprises a substantially "C"-shaped semicircular configuration.
- 8. The vascular prosthesis of claim 5 wherein the stress-relieving articulation further comprises a second connection member, the second connection member comprising a substantially straight portion coupled to a second apex of the zig-zag configuration by a second hinge, the second apex disposed adjacent to the first apex.
- 9. The vascular prosthesis of claim 8, wherein the second hinge comprises a substantially "C"-shaped semicircular configuration.
- 10. The vascular prosthesis of claim 8 wherein a proximal end of the first connection member is coupled to a proximal end of the second connection member by a third hinge.
- 11. The vascular prosthesis of claim 10, wherein the third hinge comprises a substantially "C"-shaped semicircular configuration.
- 12. A vascular prosthesis comprising:

 a radially self-expanding distal anchor having
 a plurality of cells defined by a pair of zig-zag
 configurations joined by axially-oriented struts;
- a helical section comprising a plurality of turns;

- a stress-relieving articulation interposed between at least one of the plurality of cells and the the helical section.
- 13. The vascular prosthesis of claim 12, wherein each one of the plurality of cells includes a proximal apex.
- 14. The vascular prosthesis of claim 13 wherein proximal apex comprises a bend having a substantially "C"-shaped semicircular configuration.
- 15. The vascular prosthesis of claim 13 wherein the stress-relieving articulation comprises a first connection member coupled to a first proximal apex by a first hinge.
- 16. The vascular prosthesis of claim 15 wherein the first connection member comprises a substantially straight strut.
- 17. The vascular prosthesis of claim 15 wherein the first connection member comprises a distal edge of a final turn of the helical section.
- 18. The vascular prosthesis of claim 15, wherein the first hinge comprises a substantially "C"-shaped semicircular configuration.
- 19. The vascular prosthesis of claim 15 wherein the stress-relieving articulation further comprises a second connection member coupled to a second

proximal apex by a second hinge, the second proximal apex disposed adjacent to the first proximal apex.

- 20. The vascular prosthesis of claim 19, wherein the second hinge comprises a substantially "C"-shaped semicircular configuration.
- 21. The vascular prosthesis of claim 19 wherein a proximal end of the first connection member is coupled to a proximal end of the second connection member by a third hinge.
- 22. The vascular prosthesis of claim 21, wherein the third hinge comprises a substantially "C"-shaped semicircular configuration.